

Unstable vacuum and spectrum of atoms with a superheavy nucleus

Gainutdinov R., Mutygullina A., Khamadeev M., Petrova A.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

We show that the light spectra of atoms with a superheavy nucleus may be important for our understanding of the processes in supercritical fields. The shape is obtained of a spectral line emitted by an atom with a superheavy nucleus. We study the connection of the light part of the spectrum with the parameters characterizing the nucleus decay. © Published under licence by IOP Publishing Ltd.

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